

#481

ISEE- 1 and 2
PROTON FLUID PARAM 6 RE-BOW
77-102A-01I
77-102B-01F

ISEE 2

PROTON FLUID PARAM. 6 RE-BOW SHOCK

77-102B-01F

THIS DATA SET HAS BEEN RESTORED. ORIGINALLY IT CONTAINED ONE 9-TRACK, 1600 BPI TAPE WRITTEN IN BINARY. THERE IS ONE RESTORED TAPE. THE DR TAPE IS A 3480 CARTRIDGE AND THE DS TAPE IS 9-TRACK, 6250 BPI. THE ORIGINAL TAPE WAS CREATED ON AN IBM 360 COMPUTER AND WAS RESTORED ON THE MRS SYSTEM. THE DR AND DS NUMBER ALONG WITH THE CORRESPONDING D NUMBER AND TIME SPAN IS AS FOLLOWS:

DR#	DS#	D#	FILES	TIME SPAN
DR005280	DS005280	D042232	1-19	10/27/77 - 01/19/79

ISEE-1

Proton Fluid Param 6 Re-Bow Shock

77-102A-01I

This data set has been restored. There was originally 1 9-track, 1600 BPI tape written in BCD. There is one restored tape written in EBCDIC. The DR tape is a 3480 cartridge and the DS tape is 9-track, 6250 BPI. The tape was created on a 360 computer. The DR and DS numbers along with the corresponding D number and the time span is as follows:

DR#	DS#	DD#	FILES	TIME SPAN
DR03701	DS03701	D042231	19	10/29/77 - 01/19/79

REQ. AGENT
VPL
SAC

RAND NO.
V0066
V0354

ACQ. AGENT
HKH
HCH

ISEE-1 & 2

PROTON FLUID PARAM 6 RE-BOW SHOCK

77-102A-01I

77-102B-01F

This data set catalog consists of 1 ISEE-1 and 1 ISEE-2 data tape. The tapes are 1600 BPI, 9 track, EBCDIC and both tapes contain 19 files of data. The tapes were created on an IBM 360 computer.

THE TIME SPAN IS AS FOLLOWS:

ISEE-1

D#	C#	TIME SPAN
D-42231	C-21321	10/29/77-1/19/79

ISEE-2

D-42232	C-21309	10/27/77-1/19/79
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MAX-PLANCK-INSTITUT FÜR PHYSIK UND ASTROPHYSIK
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July 7, 1986

Re: Data from the Los Alamos National Laboratory / Max-Planck-Institut Garching Fast Plasma Experiments on ISEE-1 and -2.

Dear Dr. Green,

In 1980, the two PI's of the Los Alamos / MPE Garching Fast Plasma Experiments on ISEE-1 and -2, S.J. Bame at LANL, and G. Paschmann at Garching, agreed that our group would prepare, and send to the NSSDC/WDC A, two tapes containing proton fluid parameters from regions essentially inside of the bow shock, and outside of $6 R_E$ geocentric distance, covering the period between launch of the two spacecraft (October, 1977), and mid-January, 1979, when the FPE on ISEE 1 failed.

Some time ago, we were informed by one of the users of this data set (N.U. Crooker of UCLA) about some inconsistency. This inconsistency turned out to result from a fatal error in our original production code which invalidated two of the parameters completely (the bulk flow components v_x and v_y).

We have now re-processed the entire data set, and enclose two tapes whose contents is to replace the original set. To allow an unambiguous distinction of the new data, we have slightly altered the file header record text; see the enclosed documents. Otherwise, and apart from the correction, the new data set has the same contents and format as the original one, albeit a slightly reduced UT coverage.

Please note that we have sent a copy of the corrected data set directly to UCLA so that this group need not be contacted by your office.

Finally, we should like to apologize for any inconvenience we might be causing.

Sincerely yours,



Norbert Sckopke

cc: S.J. Bame

G. Paschmann

encl.s

**Tapes with proton fluid parameters from the LANL/MPE
Fast Plasma Experiments (FPE) on ISEE-1 and -2**

IMPORTANT NOTICE:

The enclosed two tapes are to replace two others originally supplied by our group to the NSSDC in 1980. These earlier tapes contain erroneous data and are to be destroyed.

Principal Investigators:

ISEE 1: S.J. Bame, MS D438, Los Alamos National Laboratory, Los Alamos, NM 87545, USA

ISEE 2: G. Paschmann, Max-Planck-Institut für Physik und Astrophysik, Institut für extraterrestrische Physik, 8046 Garching, W-Germany

Brief Description of the Data:

The data are provided at a temporal resolution of \approx 60 seconds. They represent moments of individual two-dimensional (2D) distributions obtained in \approx 3 or \approx 6 seconds (see below). No time averaging over longer intervals is involved; instead, the temporal resolution of the full data set (\approx 3 / 6 / 12 s) was reduced to \approx 60 s. The UT given indicates the start of the respective sampling interval. For a description of the instrument see Bame et al., 1978 (IEEE Transact. Geosci. Electron. GE-16, 216); remarks about the computation of the moments may be found in Paschmann et al., 1978 (Space Sci. Rev. 22, 717).

Data Selection:

- (a) **Particle Species:** Although the FPE's measure both, positive ions and electrons, only the ion fluid parameters are given on the tapes. Electron parameters were excluded since they have not been corrected yet for photo electron effects.

Since the FPE involves an electrostatic analyzer, no differentiation between ions of different mass is possible (except under very favourable circumstances). The fluid parameters given on the tapes were computed under the assumption that all ions are protons.

- (b) Coverage_of_Physical_Space: The full set of FPE fluid parameters was inspected to select only data from the following region:

From $R \lesssim 6 R_E$ out to (but excluding) the bow shock.

Exceptions: a few brief ($\lesssim 3$ min) intervals of solar wind data may be present;

magnetosheath data of less than ≈ 1 hr duration in-between bow shock crossings may be missing.

The reasons for this selection are:

- (i) Solar wind ion distributions are too cold to be adequately resolved by the FPE instruments (note that there are special solar-wind ion instruments on both ISEE-1 and -2);
 - (ii) Inside $R \approx 6 R_E$ the FPE data would be contaminated by the energetic particle background. Usually, the instruments are turned off inside $6 R_E$.
- (c) UT Coverage: The tapes contain all the available data between initial turn-on of the instruments (end of October, 1977), and 19 January, 1979. On the enclosed, re-generated tapes the UT coverage is slightly lower than on the earlier tapes. For details see enclosure A.

Accuracy_of_the_Data:

Efficiency variations due to gain changes have not been accounted for. They may be responsible for differences between the ISEE-1 and -2 density (for example) even for periods when the spacecraft separation was small. Uncertainties of the absolute values for the density are estimated to be better than $\pm 50\%$.

Description of the Tapes:

2 tapes, labelled on the outside

ISEE 1 / FPE 2D IONS 27 OCT 77 - 19 JAN 79 Re-generated SEPT 1985	ISEE 2 / FPE 2D IONS 29 OCT 77 - 19 JAN 79 Re-generated SEPT 1985
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Each tape contains 19 no-label files.

Each file contains data from up to 10 ISEE orbits; see enclosure B or the file header records for the approximate UT coverage.

Organization of Files:

record # 1: file header record } same length, but
records 2 ff: data records } different
 } READ statements,
 } see below

Records:

formatted;
logical record length: 88 bytes
physical " : 4400 bytes

File Header Records (and FORTRAN format):

KTEXT, IOS, IOE, IYRS, IDAYS, SECS, IYRE, IDAYE, SECE
12A4 , 2I4 , 2(I5, I4, F7.0)

Data Records (and FORTRAN format):

IYR, IDAY, SEC, IORB, GSEX/Y/Z, LH, DEN, ENDEN, IFLAG, VX, YY, T
2I4 , F8.1,I4, 3F8.3, I2, F8.3,E9.2, I2, 2F7.1, E9.2

Description of Items:

(a) File_Header_Record:

KTEXT	=	text to identify the data, cf. enclosure B	x)
IOS } IOE }	=	number of first and last ISEE orbit covered by this file	
IYRS } IDAYS } SECS }	=	year day of year (day 1 = Jan 1) seconds of day	} approx. UT of start of file
IFYRE } IDAYE } SECE }	=		} end of file

(b) Data_Record:

IYR } IDAY } SEC }	=	UT defining start of data sampling; end = UT+3(6) sec. (6 sec for ISEE-1 after Jan 27, 1978, during low rate of data transmission)
IORB	=	orbit number
GSEX } GSEY } GSEZ }	=	spacecraft position in solar ecliptic coordinates (units = earth radii)
LH	=	flag indicating the energy range covered by the instrument; LH=0: energy range = \approx 50 eV to 20 keV per charge LH=1: " " = \approx 70 eV to 40 keV per charge
DEN	=	number density (units = cm^{-3})
ENDEN	=	energy density (erg cm^{-3})
IFLAG	=	0 for $\text{DEN} \geq 0.1 \text{ cm}^{-3}$ = 1 for $\text{DEN} < 0.1 \text{ cm}^{-3}$

For IFLAG = 1, errors in the following parameters
(VX, VY, T) may be larger than normal because the
counting statistics may be bad.

* Note: A slightly different text has been chosen to
distinguish the re-generated tapes for the earlier
versions.

$\begin{matrix} \text{VX} \\ \text{VY} \end{matrix} \}$ = components of the 2D bulk velocity
= in spacecraft coordinates (units = km s⁻¹)

Note: Spacecraft coordinate axes normally differ by no more than a few degrees from the respective GSE axes.

Exception: before 1 Nov, 1977, VY (SEE-2) ≈ VZ (GSE)

The 2D bulk velocity essentially represents the projection of the true velocity onto the symmetry plane of the analyzers, i.e. approximately (with the above exception) the ecliptic plane.

T = (T_{xx} + T_{yy})/2. = average 2D temperature
(units = Kelvin).

ISEE1 FPE 20 IONS 85. LANL/NPE, S.J. BAME, PI

— 20 —

EAIA COVERAGE (%) FOR OCT 1977

DAY 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 UT

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31

17 100

82

IEEE-1 FPE LASL/MPE, S.O.J. NAME, P.I.) 2D IONS

DATA COVERAGE (%) FOR NOV 1977

ISEE-1 FPE (LASL/MPE, S.-J. BAME, P.I.) 2D IONS

DATA COVERAGE (%) FOR DEC 1977 (1 MIN. RESOLUTION, SOLAR WIND AND INNER MAGNETOSPHERE EXCLUDED)

DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	UT
1	97	100	97	75						80	100	98	100	100	102	98	100	92	100	100					98	
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3																										
4																										
5	102	98	98	100	100	25	100	98	98	98	100	90	50													
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7																										
8	98	98	100	100	95	100	50																			
9																										
10	87	100	100	97	100	13																				
11																										
12	100	100	100	97	100	87	100	100	97	93	92	57														
13																										
14	98	48								87	100	100	98	100	93	97	98	100	63	8	50	100	98	100	100	
15	17	100	42																							
16	3																									
17	50	98	100	98	98	102	100	97	97	100	100	100	100	100	92	100	100	73	47	100	98	98	97	100	98	
18																										
19	23	100	100	100	97	93	100	93	95	98	98	100	100	100	98	100	100	100	100	8	33	100	93	87	100	97
20																										
21	100	98	100	102	8	95	48	97	95	100	75	88	98	100	100	92	97	95	98	98	50	35	100	98	98	47
22	95	100	100	98	95	95																				
23																										
24	100	100	100	100	100	98	98	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
25																										
26	100	50								98	95	100	100	100	100	100	92	97	100	102	100	100	100	100	100	
27	92	100	58	100	65																					
28	100	73	25	100	100	97	100	100	100	100	100	100	100	100	100	98	50									
29	100	98	90	95	98	93	100	58																		
30																	65	102	100	100	100	100	100	100	100	
31	53	98	97	100	102	98	98	100	100	100	100	100	100	100	100	93	98	98	98	100	100	100	100	100	95	

SEE-1 FPE CLASS/MPE: S-1: BAMEI P.1.1) 20 IONS

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ISEE-1 FPE (LASL/MPE, S.J. BAME, P.I.) 2D IONS

DATA COVERAGE (%) FOR FEB 1978

RESOLUTION-
MINS. SONAR WIND AND INNER MAGNE TO SOURCE CYCLIDES

ISEE-1 FPE (LASL/MPE, S.J. BAME, P.I.) 2D IONS

DATA COVERAGE (%) FOR MAR 1978

DAY	DATA COVERAGE (%) FOR MAR 1978												(1 MIN. RESOLUTION, SOLAR WIND AND INNER MAGNETOSPHERE EXCLUDED)													
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	UT
1	167	128	100	80	98	48	80	100	98	103	100	100	100	100	98	63	18	18	80	92	70	77	83	72		
2	97	100	98	93	93	88	98	98	100	98	100	100	100	100	100	66	60	22	73	72	77	42	47			
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13	38	50	93	97	93	88	88	93	75	60	90	95	92	78	90	93	48	28	2	25	25	32	87	60		
14	30	95	92	97	90	90	93	90	88	53	92	92	50	90	95	80	92	92	88	85	90	93	33			
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25	100	100	100	98	100	97	95	92	98	100	95	65	63	100	100	100	95	93	20	82	93	90	77	98	98	
26	98	100	100	98	100	100	98	100	100	100	100	100	100	100	100	98	98	40	68	100	100	100	100	100	98	
27	100	83																								
28																										
29																										
30	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	98	98	100	100	100	100	100	98	100	100	
31	100	100	100	98	100	100	100	100	100	100	100	100	100	100	100	75	95	67	97	93	100	100	100	100	100	

NISEE-1 FPE (LASL/IMPE) S-J. BAME, P-I-) 2D IONS

DATA COVERAGE 121 ECB APP 1978

(1 MIN. RESOLUTION, SOLAR WIND AND INNER MAGNETOSPHERE EXCLUDED)

ISEE-1 FPE (LASL/MPE, S.J. BAME, P.I.) 20 IONS

DATA COVERAGE (%) FOR MAY 1978

(1) WIND-RESPONSE: SOLAR WIND AND INNER MAGNETOSPHERE EXCLUDED)

ISEE-1 FPE (LASL/MPE, S.J. BAME, P.I.) 2D IONS

DATA COVERAGE (%) FOR JUN 1978

DAY	0	(1 MIN. RESOLUTION, SOLAR WIND AND INNER MAGNETOSPHERE EXCLUDED)																									
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	UT	
1	98	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
2	83	100	100	67	100	100	100	100	98	100	100	100	100	100	97	97	97	97	98	97	97	98	98	98	98	98	
3	100	100	98	98	97	100	100	98	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
4	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
5	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
6	100	100	100	100	100	97	88	92	67	100	28	38	78	95	68	93	52	42	98	100	100	100	100	100	100	100	
7	100	100	100	100	100	100	98	100	100	100	98	97	100	100	75	83	93	52	87	100	100	100	100	100	100	100	
8	97	100	100	100	100	100	100	98	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
9	100	98	98	100	98	98	100	98	100	98	98	98	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
10	100	98	98	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
11	100	100	100	100	100	98	100	78	100	100	98	100	97	100	100	45	60	100	100	100	100	100	100	100	100		
12	100	98	100	100	100	98	98	100	70	77	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
13	100	100	100	100	100	98	98	100	98	100	98	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
14	100	100	100	100	100	100	98	100	100	100	98	97	92	98	97	93	97	67	97	100	100	100	100	100	100	100	
15	98	100	93	100	98	100	92	98	97	92	98	97	92	77	5	33	72	93	92	77	50	100	98	98	78	100	97
16	80	27	97	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
17	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
18	100	100	102	100	100	97	98	100	73	100	98	98	100	100	68	100	98	100	100	98	100	100	100	100	100	100	
19	100	100	100	100	100	92	42	100	100	100	100	100	100	100	50	50	97	100	98	97	100	100	100	100	100	100	
20	48	100	88	83	47	98	77	100	98	100	98	100	100	100	98	100	100	67	60	42	82	100	80	73	100	100	
21	100	98	33	97	55	100	67	102	100	95	98	98	77	100	55	77	100	37	72	100	98	100	65	98	98	100	
22	100	98	100	100	82	97	98	97	98	98	98	98	77	98	93	98	98	53	72	87	72	100	93	98	77	100	
23	98	100	102	50	100	100	40	50	50	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
24	100	100	100	97	100	100	100	98	100	100	98	100	100	97	97	98	98	100	77	33	95	98	98	98	98	98	
25	83	98	100	98	102	98	102	98	93	88	97	97	97	97	95	100	100	100	100	100	100	100	100	100	100	100	
26	100	100	75	102	98	98	98	75	100	100	98	98	98	95	97	95	100	100	30	100	100	100	100	100	100	100	
27	100	93	98	98	93	48	77	92	100	100	98	97	100	93	100	100	100	100	100	100	100	100	100	100	100	100	
28	60	92	27	98	100	82	97	98	100	100	98	97	100	93	100	98	98	100	18	97	98	100	97	98	98	98	
29	72	100	98	98	93	92	35	78	82	97	98	93	98	48	57	98	95	98	87	98	68	97	98	98	98	98	98
30	58	100	98	98	23	100	95	43	100	95	43	100	95	43	35	97	18	18	32	98	100	82	82	82	82	82	82

IISCE-1 FPE (LASL/MPE, S. J. BAME, P. I.) 2D IONS

DATA COVERAGE (%) EOB III 1978

1 MIN. RESOLUTION. SOLAR WIND AND INNER MAGNETOSPHERE EXCLUDED.

1 SEE -1 FPE (LASL/MPE, S : J : SAME, P : I :) 2D IONS

DATA COVERAGE (%) EDR AUG 1978

11 MIN-RESOLUTION, SOLAR WIND AND INNER MAGNETOSPHERE EXCLUDED)

1 SEE-1 FPE (LASL/MPE, S.J. BAME, P.I.) 20 IONS

DATA COVERAGE (%) FOR SEP 1978

ISSEE-1 FPE (LASL/MPE, S.J. BAME, P.I.) 20 IONS

DATA COVERAGE (%) FOR OCT 1978

(1) MIN. RESOLUTION, SOLAR WIND AND INNER MAGNETOSPHERE EXCLUDED)

ISEE-1 FPE (LASL/MPE, S.J. BAME, P.I.) 20 IONS

DATA COVERAGE (%) ECB NCV 1978

(1 MIN. RESOLUTION) SOLAR WIND AND INNER MAGNETOSPHERE EXCLUDED)

ISEE-1 FPE (LASL/MPE, S.J. BAME, P.I.) 22 ICAS

DATA COVERAGE (%) FOR DEC 1978

I SEE-1 FPE (LASL/MPE; S.J. BAME, P.I.) 20 IONS

DATA COVERAGE (%) FOR JAN 1979

10

1. MIN. RESOLUTION, SOLAR WIND AND INNER MAGNETOSPHERE EXCLUDED

ISEE2 FPE 2D IONS BS. LANL/NEP, G. PASCHMANN, PI

FIG. 2 TYPE (BSST/NEP, G. PASCHMANN, PI) 2D-IONS

DATA COVERAGE (%) FOR OCT 1977 (1 MIN. RESOLUTION, SOLAR WIND AND INNER MAGNETOSPHERE EXCLUDED)

DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	UT
1	1																									
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35 33 68 53 30
40 98 97 50

48 97

NISEE-2 FPE (LASL/HPE, G. PASCHMANN, PI) 2D IONS

DATA COVERAGE (%) POP NOV 1977

1 MIN. RESOLUTION, SOLAR WIND AND INNER MAGNETOSPHERE EXCLUDED)

ISEE-2 FPE (LASL/HFE, G. PASCHMANN, PI) 2D IONS

DATA COVERAGE (%) FOR DEC 1977

(1 MIN. RESOLUTION, SOLAR WIND AND INNER MAGNETOSPHERE EXCLUDED)

DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	UT
1	1	98	98	97	1	83				88	100	95	100	97	97	95	90	97	98	95	95	8			98	
2	2									50	100	100	100	92				52	100	95	93	97	98	98		
3	3																									
4	4	87	100	37	1	70	100	8																		
5	5																									
6	6																									
7	7																									
8	8																									
9	9	100	100	97	100	100	100	100	87	100	100	100	100	98	95	100	100	8								
10	10	95	100	102	100	102	100	92	13																	
11	11																									
12	12	100	98	100	100	100	87	98	102	100	100	100	67													
13	13																									
14	14	92	100					8	98	100	92	97	100	100	100	100	100	78	25	93	100	95	100	98	98	
15	15	43	100	32																			50	100	100	
16	16	57																								
17	17	97	100	98	93	93	98	100	100	100	100	100	100	95	95	100	100	100	62	72	100	98	100	100	97	100
18	18																									
19	19																									
20	20																									
21	21	95	98		100	90	97	33	100	100	92	97	75	97	97	100	100	92	98	98	95	98	92	92	88	
22	22	95	68	42	102	33	100	100	100	100	100	100	100	67	98	100	100	100	77	33	100	77	83	98	97	
23	23	98	95	98	98	98	98	100	100	100	63	78	100	50	93	95	97	50								
24	24																									
25	25																									
26	26		100	40					27	98	98	97	98	100	98	60	90	100	97	98	100	8				
27	27		20						32	83									28	98	100	95	1	72	100	
28	28		98	73	30	100	97	100	100	98	98	98	98	50	97	15	97	100	98	100	98	100	82	50		
29	29			17	95	100	100	100	100	98	98	50	67	100	102	97	100	98	100	87	97	78				
30	30																									
31	31		63	100	98	100	100	100	100	100	100	100	100	98	102	100	100	100	97	100	98	100	98	100	98	

EVALUATION OF THE PPE-2 PPE (LASL/EPE, G. PASCHMANN, PI) 2D IONS

DATA COVERAGE (2) FEB 1978

SOLAR WIND AND INNER MAGNETOSPHERE EXCLUDED

DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	UT
1	92	98	100	98	98	98	98	98	98	98	100	100	98	98	98	98	98	98	98	98	98	98	98	98	98	
2	100	97	97	95	35	38	40	100	98	97	100	100	95	100	100	98	98	98	98	98	98	98	98	98	97	
3	98	98	100	95	100	100	100	100	98	97	100	100	98	98	98	102	100	100	100	100	100	100	100	100	97	
4	93	82	100	100	100	97	100	98	98	98	100	97	98	98	98	48	97	50	102	100	97	100	100	97	100	100
5	100	100	100	98	98	97	98	100	97	98	95	98	102	100	97	87	100	98	100	100	100	100	100	100	100	
6	97	100	100	98	100	33	52	100	95	100	100	100	98	100	100	52	98	100	98	100	100	100	100	100	100	
7	97	100	100	98	100	100	98	100	97	80	100	100	95	100	100	20	100	98	97	100	98	100	98	98	98	
8	100	98	93	98	100	100	100	100	100	100	100	100	100	100	100	98	98	98	98	100	98	100	98	98	98	
9	97	98	97	100	100	100	100	100	100	100	100	100	100	100	100	98	98	98	98	98	98	98	98	98	98	
10	97	98	97	100	100	100	100	100	100	100	100	100	100	100	100	98	98	98	98	98	98	98	98	98	98	
11	100	100	95	100	100	100	100	100	95	98	100	100	97	100	100	98	100	100	102	95	98	98	98	98	98	
12	98	98	88	100	98	100	100	100	100	100	100	100	100	100	100	98	102	100	100	100	100	100	102	67	40	
13	97	100	100	98	100	100	98	100	98	68	98	100	100	100	100	97	98	98	100	98	98	98	98	97	97	
14	100	100	65	98	97	100	100	100	98	47	68	65	98	100	100	98	98	98	98	98	98	98	98	98	98	
15	98	100	98	98	97	100	100	100	98	100	98	100	98	100	100	98	102	98	98	100	98	100	98	98	98	
16	100	97	100	98	100	100	100	100	95	98	100	98	95	100	100	98	100	100	98	100	98	100	98	100	98	
17	97	97	100	98	98	83	92	98	100	97	100	100	97	100	100	98	100	100	98	100	97	97	100	102	52	
18	97	98	100	100	95	98	98	98	98	98	100	95	100	97	98	100	98	100	98	98	98	98	98	98	97	
19	100	100	98	100	72	100	100	80	90	100	100	98	100	97	98	100	97	98	97	98	100	98	100	98	98	
20	100	100	98	100	98	97	90	100	100	100	98	100	90	100	100	97	98	100	97	98	98	98	98	98	98	
21	82	67	98	100	98	100	100	100	95	98	100	100	100	100	93	100	100	100	100	100	98	100	100	95	95	
22	100	98	100	97	98	100	100	100	100	100	100	100	100	100	100	93	100	100	100	100	100	98	100	60	60	
23	100	100	100	97	100	100	100	100	102	98	100	100	100	100	100	97	100	100	102	100	100	100	100	100	100	
24	100	97	100	100	98	98	100	100	100	100	100	100	100	100	100	97	100	100	48	70	98	97	98	98	100	
25	102	98	98	102	100	100	100	98	100	97	98	100	100	100	100	93	100	100	93	100	98	97	65	12	1	
26	98	73	88	98	100	100	98	98	85	87	100	98	97	100	100	97	97	97	97	98	98	98	98	98	100	
27	98	88	95	73	97	98	98	98	98	100	100	98	98	98	98	98	98	98	98	98	98	98	97	98	98	
28	98	98	92	98	97	82	97	82	83	95	100	98	98	98	98	98	98	98	98	98	98	98	98	95	100	
29	93	92	100	100	98	100	100	100	98	100	98	100	98	100	100	98	100	98	98	98	98	98	98	98	98	
30	100	100	100	100	100	100	100	100	98	88	100	100	98	100	100	98	100	100	98	98	98	98	98	98	98	
31	92	88	98	100	100	97	100	100	100	100	100	100	100	100	100	98	100	100	98	98	100	98	100	98	95	

ISSUE-2 PPE (LASL/WPE, G-PASCHMANN, PR) 2D LIONS

DATA COVERAGE (%) PAGE FEB 1978

(1 min. resolution, solar wind and inner magnetosphere excluded)

NISEE-2 FPE (LASL/MPE, G. PASCHMANN, PI) 20 IONS

(1) 512-RESOLUTION, SOLAR WIND AND INNER MAGNETOSPHERE EXCLUDED)

ISSUE-2 FPR (LASL/NPE, G. PASCHMANN, PI) 2D IONS

DATA COVERED BY THIS EDITION MAY 1978

(1 MIN. RESOLUTION: SOLAR WIND AND INNER MAGNETOSPHERE EXCLUDED)

DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	UT	
1	90	93	100	97	100	98	92	95	82	97	97	98	98	97	82	97	92	85	97	92	85	97	100	100	100		
2	18	63	58	37	100	97	93	97	58	98	100	98	100	98	100	85	90	25	93	18	83	92	23	97	98		
3	98	100	43	22	98	95	100	33	83	100	95	100	100	93	23	63	40	27	98	100	98	100	98	98	100		
4	95	88	92	15	82	98	95	98	98	100	100	98	100	100	98	82	100	67	67	88	77	100	98	33	85		
5	100	100	100	100	100	100	88	98	100	82	88	100	45	100	100	100	100	98	50	50	52	75	100	68	100		
6	98	93	95	100	100	100	95	100	100	82	88	100	100	100	100	98	100	63	57	3	98	100	97	98	98		
7	53	40	90	95	98	100	97	100	100	98	98	97	98	97	100	98	97	98	97	98	97	98	98	98	98		
8	93	97	93	95	90	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
9	2	37	2	48	98	100	100	100	100	95	95	92	100	100	100	100	100	100	100	100	100	100	100	100	100		
10	100	100	100	100	100	100	100	100	100	95	95	92	100	100	100	100	100	100	100	100	100	100	100	100	100		
11	53	40	90	95	98	100	97	100	100	98	98	97	98	97	100	98	97	98	97	98	97	98	97	98	97		
12	95	93	97	95	90	100	100	100	100	98	95	100	100	100	100	98	97	98	95	68	73	97	98	93	35		
13	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
14	98	68	98	98	98	100	98	100	100	98	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
15	98	68	18	98	98	100	98	100	100	98	100	100	98	100	100	98	100	88	47	88	28	40	75	100	68		
16	100	100	98	97	100	100	98	97	83	95	100	100	100	100	100	100	98	100	95	37	72	100	98	82	100		
17	100	100	98	98	100	100	97	100	100	98	95	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
18	100	100	77	98	98	100	98	100	100	98	95	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
19	98	68	18	98	98	100	98	100	100	98	95	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
20	100	100	27	98	100	100	98	100	100	98	95	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
21	100	100	100	98	98	100	98	93	98	100	100	98	100	100	98	100	100	98	100	97	97	100	98	100	97	97	
22	100	100	100	98	98	100	98	93	98	100	100	98	100	100	98	100	100	98	100	65	100	63	55	100	100	3	
23	98	100	98	98	100	98	100	98	100	95	98	100	98	100	98	100	98	100	98	100	12	100	100	100	100		
24	98	100	67	98	100	87	98	100	98	100	95	98	100	98	100	95	98	100	95	97	90	78	97	100	97	97	
25	100	100	27	98	100	87	98	100	98	100	98	98	100	98	100	98	100	100	98	100	100	100	100	100	100	100	
26	100	100	100	100	100	100	98	98	100	100	98	100	100	100	100	100	100	100	100	100	28	53	100	98	98	100	
27	97	100	97	98	98	100	100	100	100	98	100	100	100	100	100	100	100	100	100	100	95	100	98	100	100	100	
28	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	57	100	42	82	98	100	
29	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	30	100	100	100	100	100	
30	100	100	98	100	100	100	98	100	100	98	100	100	98	100	100	98	100	100	98	100	97	100	98	100	100	100	
31	100	100	98	100	100	98	100	100	98	100	100	98	100	100	98	100	100	97	73	100	100	47	98	100	100	97	98

ISEE-2 FPE (LASL/EPE, G. PASCHMANN, PI) 2D IONS

DATA COVERAGE (%) 203 JUN 1978

(1 MIN. RESOLUTION, SOLAR WIND AND INNER MAGNETOSPHERE EXCLUDED)

ISEE-2 FPE (FLASH/MEPE, G. PASCHMANN, PI) 2D IONS

DATA COVERAGE (%) FOR JUL 1978

(1 MIN. RESOLUTION, SOLAR WIND AND INNER MAGNETOSPHERE EXCLUDED)

DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	UT
1	100	82	100	1	97	97	97	98	98	93	97	98	98	97	97	95	97	67	65	92	87	97	98	7		
2	100	95	100	1	98	100	53	77	85	75	72	43	28	100	98	85	53									
3		38	100	1	50	80	7	62	98	1	85	5														
4		90	98	98	93	60	100	1	92	97	32	47	98	23	55	23	85	1	95	97	42	30	83	98	20	
5		23	52	68	100	53	25	33	1	93	97	73	97	48	2											
6		17	98	98	98	85	22	100	98	100	100	100	93	95	2											
7		98	98	100	88	57	95	58	37	38	40	55	28													
8		98	98	100	100	50	100	100	98	95	87	93	93	97	45	50	42	23	40	98						
9																										
10																										
11	63	48	25	27	37	58	68	58	38	72	48	83	58	100	8	77	2	98	25							
12	38	97	93	78	78	1	68	58	38	72	48	83	58	100	60	72	1	60	72	1	22	10	1	3	18	
13																										
14		17	97	93	100	98	100	100	47	30	28	22	45	17	25	25	17	1	67	98	3	30	1	82	55	
15		45	98	87	93	100	95	98	100	100	30								85	100	1	100	100	90	35	
16																										
17		50	100	75	38																					
18		75	100	97	100	100	100	98	100	98	100	95	100	98	18	100	75	72	67	100	75	100	1	98	25	
19		100	100	100	98	98	97	85	65	95	95	100	98	98	18	100	75	72	67	100	75	100	1	98	25	
20		100	100	100	98	98	97	85	65	95	95	100	98	98	18	100	75	72	67	100	75	100	1	98	25	
21		100	100	98	100	93	98	87	95	98	95	100	98	100	75	100	75	72	67	100	75	100	1	98	25	
22																										
23		33	98	98	97	97	92	70	52	67	68	1	3	98	73	8	60	40	33	63	82	50	95	100	92	
24		62	25	98	87	62	35	87	53	88	95	22	60	65	40	22	63	1	97	88	37	1	67	23	97	
25																										
26		98	97	98	97	98	95	97	100	98	98	100	98	98	80	98	35	35	100	97	100	1	55	95		
27		97	100	95	98	100	100	100	98	97	98	100	100	98	98	98	92	100	98	98	100	98	92	100		
28																										
29		93	100	50	48	83																				
30																										
31		100	98	100	100	98	98	97	98	100	98	97	98	100	98	45	8	98	20	1	30	1	97	98	100	100

2D IONS
PASCHHANN, G.
FLASH/HPE, II SER-2 FPE

DATA COVERAGE (%) FOR AUG 1978
1 MIN. RESOLUTION, SOLAR WIND AND INNER MAGNETOSPHERE EXCLUSEL

ISEE-2 PPE (LASL/MPE, G.-PASCHIANN, PI) 2D IONS

S151 CONVERSATION (4) 808 SEP 1978

11. RESOLUTION, SOLAR WIND AND INNER MAGNETOSPHERE EXCLUDED

ISSEE-2 PPP (HASL/EPF, G.-PASCHMANN, PI) 2D ZONS

DATA COVERAGE (1) FOR OCT 1978

MIN. RESOLUTION. SOLAR WIND AND INNER MAGNETOSPHERE EXCLUDED)

ISSE-2 FPE (LASL/HPE, G.- PASCHMANN, PI) 2D IONS

DATA COVERAGE (1) FOR NOV 1978

(1) MIN. RESOLUTION. SOLAR WIND AND INNER MAGNETOSPHERE EMISSIONS.

ISEE-2 PPE (LASL/MPE, G.- PASCHMANN, PI) 2D LONS

DATA COVERAGE (%) 20B DEC 1978

SOLAR WIND AND INNER MAGNETOSPHERE EXPLAINED

DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
1	50	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
2	28	1	40	13	100	95	98	97	95	98	97	95	98	97	95	98	97	95	98	97	95	98	97	95	98	
3	67	97	2	40	98	100	95	98	97	98	97	98	97	98	97	98	97	98	97	98	97	98	97	98	97	
4	67	97	2	40	98	100	95	98	97	98	97	98	97	98	97	98	97	98	97	98	97	98	97	98	97	
5	67	97	2	40	98	100	95	98	97	98	97	98	97	98	97	98	97	98	97	98	97	98	97	98	97	
6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
7	75	67	100	93	100	85	33	100	97	97	78	45	50	58	100	23	80	98	97	25	53	57	57	57	57	
8	75	67	100	93	100	85	33	100	97	97	78	45	50	58	100	23	80	98	97	25	53	57	57	57	57	
9	43	10	58	93	100	85	33	100	97	97	78	45	50	58	100	23	80	98	97	25	53	57	57	57	57	
10	43	10	58	93	100	85	33	100	97	97	78	45	50	58	100	23	80	98	97	25	53	57	57	57	57	
11	55	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
12	55	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
13	60	100	95	97	98	100	98	100	98	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
14	60	100	95	97	98	100	98	100	98	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
15	60	100	95	97	98	100	98	100	98	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
16	3	57	23	95	98	100	98	100	98	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
17	3	57	23	95	98	100	98	100	98	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
18	93	15	98	58	83	22	100	75	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
19	93	15	98	58	83	22	100	75	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
20	58	97	90	100	78	23	75	25	100	75	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
21	22	98	97	100	87	30	40	60	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
22	22	98	97	100	87	30	40	60	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
23	43	20	20	38	100	100	88	98	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
24	45	52	2	43	50	92	97	50	92	97	50	92	97	50	92	97	50	92	97	50	92	97	50	92	97	
25	2	50	1	43	20	38	100	100	88	98	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
26	98	93	100	98	100	97	97	95	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
27	43	70	33	98	100	97	97	95	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
28	7	48	97	25	30	100	95	100	98	25	58	100	47	5	77	78	98	100	100	100	100	100	100	100	100	
29	30	48	97	25	30	100	95	100	98	25	58	100	47	5	77	78	98	100	100	100	100	100	100	100	100	
30	33	37	83	97	100	100	95	90	100	95	90	100	95	90	100	95	90	100	97	100	97	100	97	100	97	
31	33	37	83	97	100	100	95	90	100	95	90	100	95	90	100	95	90	100	97	100	97	100	97	100	97	

LISSE-2 PPE (LASL/BPE, G. PASCHIANN, PI) 20 IONS

DRAFT CONVERGE (3) EOB JAN 1979

111 FINN RESOLUTION. SOLAR WIND AND INNER MAGNETOSPHERE EXCLUDED)

DATA COVERAGE (%)		JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		
DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
1	37	100	97	90	53	100	100	98	92	100	100	95	98	100	100	90	92	85	100	42	53	38				
2	25	2	65	82	95	100	95	98	75	10	100	62	100	100	100	97	98	98	72							
3		70	70	98	100	100	85	87	92	98	97	100	97	98	100	98	97	28	100	100	100	95	30	92		
4		3	98	52	88	97	100	98	100	97	86	98	100	50	100	100	73	100	85	100	100	100	100	100	100	
5		63	32	12	97	47	98	47	98	98	100	100	30	25	100	100	100	100	100	100	100	100	100	100	100	100
6	28	47	20	80	65	87	37	100	100	100	32	100	95	100	80	40	20	98	100	100	100	100	100	100	100	
7				57	100	100	98	100	100	98	98	98	100	98	100	98	3	50	20	97	97	100	97	98	93	52
8	48	72	97	97	98	95	98	100	100	98	40	95	48	40	95	100	80	83	23	95	100	100	95	100	95	73
9				42	100	53	72	98	97	100	93	100	100	100	100	67	98	100	93	2	100	97	35	93	63	
10				12																						
11		47	100	100	98	98	100	98	100	95	100	97	100	100	100	100	100	98	100	100	97	100	97	95	98	
12		67	5	95	98	62	93	100	98	93	100	100	100	100	100	97	47	100	70	98	100	97	42	100	97	
13		20	100	98	100	63	45	100	98	100	100	100	100	100	100	97	95	75	100	95	100	100	100	100	100	
14		62	37	32	100	22	100	100	100	98	100	100	100	100	100	98	100	100	100	95	100	98	28	100	25	
15		100	40	75	1	98	97	90	100	97	100	100	100	100	100	98	97	97	100	48	42	100	98	100	37	
16			20	67	68	100	98	95	82	98	1	97	100	100	100	100	100	100	100	100	100	100	100	100	100	
17		55			8	100	100	98	100	98	1	78	98	98	100	100	98	33	57	98	100	75	83	100	58	
18		12	7	58	100	100	98	100	100	98	10	3	95	98	100	100	98	75	100	97	100	100	98	93	98	
19		78	13	37	98	100	100	100	100	100	100	100	100	100	100	100	100	95	100	100	98	100	98	93	98	

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R-1

(FILE#)	ISEE1 FPE 2D IONS 85.	TEXT	LANL/APE,	S.J. BAME, PI	4	10	1977	302	82200.	YR DAY	SECS	YR	DAY	SECE
(DR#)	YR DAY SEC ORB	GSE-X GSE-Y	GSE-Z E	DEN ENDEN F	VX	VY	VZ			11.6	4.63E+07	T		
1	1977 302 82221.0	4	3.266 -7.875	2.769 1	1.362 8.70E-09	0	27.1			-17.2	4.33E+07			
2	1977 302 82280.9	4	3.286 -7.893	2.781 1	1.331 7.95E-09	0	-14.9			-8.3	4.62E+07			
3	1977 302 82340.9	4	3.302 -7.907	2.790 1	1.284 8.20E-09	0	-5.7			2.1	4.57E+07			
4	1977 302 82400.9	4	3.322 -7.924	2.802 1	1.240 7.82E-09	0	19.8							
4677	1977 319 32349.3	10												
(FILE#)	ISEE1 FPE 2D IONS 85.	TEXT	LANL/APE,	S.J. BAME, PI	11	20	1977	319	57000.	YR DAY	SECS	YR	DAY	SECE
(DR#)	YR DAY SEC ORB	GSE-X GSE-Y	GSE-Z E	DEN ENDEN F	VX	VY	VZ			-17.6	3.14E+07	T		
1	1977 319 57001.1	11	0.369 -7.686	2.475 1	0.850 3.68E-09	0	16.1			7.5	2.30E+07			
2	1977 319 57061.0	11	0.382 -7.710	2.487 1	0.774 2.45E-09	0	16.7			32.3	2.72E+07			
3	1977 319 57121.0	11	0.396 -7.734	2.499 1	0.781 2.93E-09	0	-0.2			32.1	3.92E+07			
4	1977 319 57181.0	11	0.410 -7.757	2.511 1	0.871 4.71E-09	0	-0.7							
9886	1977 343 23385.7	20												
(FILE#)	ISEE1 FPE 2D IONS 85.	TEXT	LANL/APE,	S.J. BAME, PI	21	30	1977	343	44400.	YR DAY	SECS	YR	DAY	SECE
(DR#)	YR DAY SEC ORB	GSE-X GSE-Y	GSE-Z E	DEN ENDEN F	VX	VY	VZ			21.9	2.01E+07	T		
1	1977 343 44446.5	21	-2.935 -4.970	1.659 1	1.565 4.35E-09	0	4.0			7.7	2.07E+07			
2	1977 343 44506.5	21	-2.935 -5.006	1.674 1	1.536 4.39E-09	0	6.5			8.0	1.84E+07			
3	1977 343 44566.5	21	-2.935 -5.034	1.686 1	1.599 4.66E-09	0	-2.2			22.6	2.04E+07			
4	1977 343 44626.4	21	-2.935 -5.070	1.701 1	1.398 3.94E-09	0	25.6							
16081	1978 2 20046.8	30												
(FILE#)	ISEE1 FPE 2D IONS 85.	TEXT	LANL/APE,	S.J. BAME, PI	31	40	1978	2	35400.	YR DAY	SECS	YR	DAY	SECE
(DR#)	YR DAY SEC ORB	GSE-X GSE-Y	GSE-Z E	DEN ENDEN F	VX	VY	VZ			-16.2	1.37E+07	T		
1	1978 2 35546.7	31	-4.670 -3.353	1.738 1	0.979 1.86E-09	0	6.6			-13.9	5.4 1.36E+07			
2	1978 2 35606.7	31	-4.684 -3.386	1.753 1	0.958 1.80E-09	0	-1.6			13.4	1.25E+07			
3	1978 2 35666.7	31	-4.699 -3.419	1.768 1	1.019 1.73E-09	0	-0.2			15.0	1.23E+07			
4	1978 2 35726.6	31	-4.713 -3.452	1.784 1	1.039 1.76E-09	0								
24101	1978 26 4745.3	40												

Records, Tree

First 4 min

(FILE#)	ISEE1 FPE 2D IONS 85.	TEXT	LANL/APE.	S.J. BAME, PI	ORS ORE	YR DAY	SECS	YR DAY	SECE
(DR#)	YR DAY SEC ORB	GSE-X	GSE-Y	GSE-Z E	DEN	ENDEN F	VX	VY	T
1	1978 26 26843.9	41	-5.669	-1.241	0.050	4.11E-11	1	-33.2	-58.9 5.74E+06
2	1978 26 26903.9	41	-5.686	-1.266	1.860	0.922	1.77E-11	1	-28.8 -46.5 5.64E+06
3	1978 26 26963.9	41	-5.706	-1.284	1.872	0.956	3.47E-11	1	-75.5 7.6 4.13E+06
4	1978 26 27023.8	41	-5.733	-1.308	1.887	0.941	2.66E-11	1	-97.9 59.0 3.95E+06

23031 1978 49 86366.5 50

(FILE#)	ISEE1 FPE 2D IONS 85.	TEXT	LANL/APE.	S.J. BAME, PI	ORS ORE	YR DAY	SECS	YR DAY	SECE
(DR#)	YR DAY SEC ORB	GSE-X	GSE-Y	GSE-Z E	DEN	ENDEN F	VX	VY	T
1	1978 59 67308.6	55	-5.329	1.934	2.028	0.270	4.25E-09	0	-86.4 1.11E+08
2	1978 59 67344.6	55	-5.349	1.930	2.037	0.312	5.36E-09	0	130.1 64.9 1.22E+08
3	1978 59 67380.6	55	-5.369	1.926	2.045	0.226	2.94E-09	0	-32.0 -15.7 9.39E+07
4	1978 59 67416.6	55	-5.389	1.922	2.054	0.280	4.79E-09	0	-242.0 3.2 1.26E+08

5119 1978 73 80686.6 60

(FILE#)	ISEE1 FPE 2D IONS 85.	TEXT	LANL/APE.	S.J. BAME, PI	ORS ORE	YR DAY	SECS	YR DAY	SECE
(DR#)	YR DAY SEC ORB	GSE-X	GSE-Y	GSE-Z E	DEN	ENDEN F	VX	VY	T
1	1978 83 59886.8	65	-4.625	3.892	2.346	0.853	1.49E-09	0	13.9 -13.7 1.27E+07
2	1978 83 59946.8	65	-4.657	3.898	2.359	0.739	1.41E-09	0	36.3 15.9 1.38E+07
3	1978 83 60006.8	65	-4.689	3.904	2.373	0.722	1.44E-09	0	8.9 -2.6 1.45E+07
4	1978 83 60066.7	65	-4.720	3.910	2.386	0.679	1.29E-09	0	1.3 17.8 1.37E+07

12634 1978 97 68977.1 70

(FILE#)	ISEE1 FPE 2D IONS 85.	TEXT	LANL/APE.	S.J. BAME, PI	ORS ORE	YR DAY	SECS	YR DAY	SECE
(DR#)	YR DAY SEC ORB	GSE-X	GSE-Y	GSE-Z E	DEN	ENDEN F	VX	VY	T
1	1978 98 27344.2	71	-12.002	6.854	5.820	0.114	5.00E-10	0	2.3 59.8 3.15E+07
2	1978 98 27404.2	71	-12.017	6.855	5.825	0.092	5.01E-10	1	-16.6 -22.2 3.96E+07
3	1978 98 27464.2	71	-12.033	6.856	5.831	0.081	4.12E-10	1	-25.1 -108.6 3.59E+07
4	1978 98 27524.2	71	-12.048	6.857	5.836	0.095	5.65E-10	1	-102.4 -71.4 4.20E+07

22269 1978 121 64587.8 80

(FILE#) 13 ISEE1 FPE 2D IONS 85. LANL/APE. S.J. BAME, PI 121 130 1978 217 46500. 1978 241 19500.

(DR#)	YR	DAY	SEC	ORB	GSE-X	GSE-Y	GSE-Z	E	DEN	ENDEN	F	VX	VY	VZ	SECE
1	1978	217	46563.7	121	6.574	1.756	2.985	1	0.498	4.09E-09	0	32.8	-32.7	5.94E+07	T
2	1978	217	46623.7	121	6.595	1.778	2.996	1	0.440	3.86E-09	0	52.5	14.1	6.33E+07	
3	1978	217	46683.6	121	6.616	1.799	3.007	1	0.546	4.47E-09	0	2.3	-22.6	5.92E+07	
4	1978	217	46743.6	121	6.637	1.826	3.018	1	0.489	4.11E-09	0	-32.6	-17.8	6.07E+07	

8343 1978 241 19427.2 130

(FILE#) 14 ISEE1 FPE 2D IONS 85. LANL/APE. S.J. BAME, PI 131 140 1978 241 37200. 1978 265 10800.

(DR#)	YR	DAY	SEC	ORB	GSE-X	GSE-Y	GSE-Z	E	DEN	ENDEN	F	VX	VY	VZ	SECE
1	1978	241	37358.7	131	6.463	-0.951	2.932	1	0.753	3.34E-09	0	-19.6	-29.4	3.21E+07	T
2	1978	241	37418.7	131	6.492	-0.939	2.943	1	0.831	3.14E-09	0	10.5	-18.3	2.73E+07	
3	1978	241	37478.6	131	6.520	-0.927	2.954	1	0.784	3.56E-09	0	9.6	-31.1	3.28E+07	
4	1978	241	37538.6	131	6.549	-0.916	2.966	1	0.387	3.00E-09	0	-17.6	-33.1	5.61E+07	

1FY218I VSIOS : I/O ERROR, FILE FT10F001, STANDARD CORRECTIVE ACTION TAKEN. EXECUTION CONTINUING.

I/O ERROR: INPUT FILE / DS: 165 212

5881 1978 265 10778.6 140

(FILE#) 15 ISEE1 FPE 2D IONS 85. LANL/APE. S.J. BAME, PI 141 150 1978 265 27600. 1978 289 1200.

(DR#)	YR	DAY	SEC	ORB	GSE-X	GSE-Y	GSE-Z	E	DEN	ENDEN	F	VX	VY	VZ	SECE
1	1978	265	277889.0	141	4.960	-3.286	2.763	1	0.340	1.86E-09	0	29.3	123.1	3.86E+07	T
2	1978	265	27949.0	141	4.992	-3.288	2.775	1	0.508	2.97E-09	0	3.3	18.4	4.24E+07	
3	1978	265	28008.9	141	5.025	-3.289	2.787	1	0.478	2.65E-09	0	56.3	33.0	3.99E+07	
4	1978	265	28068.9	141	5.057	-3.290	2.799	1	0.419	2.52E-09	0	-10.9	19.3	4.36E+07	

4595 1978 289 1130.0 150

(FILE#) 16 ISEE1 FPE 2D IONS 85. LANL/APE. S.J. BAME, PI 151 160 1978 289 27900. 1978 312 79200.

(DR#)	YR	DAY	SEC	ORB	GSE-X	GSE-Y	GSE-Z	E	DEN	ENDEN	F	VX	VY	VZ	SECE
1	1978	289	28146.1	151	6.898	-6.291	4.097	1	0.569	4.61E-09	0	2.7	-1.6	5.87E+07	T
2	1978	289	28206.0	151	6.921	-6.297	4.104	1	0.399	4.32E-09	0	33.3	19.5	7.84E+07	
3	1978	289	28266.0	151	6.944	-6.304	4.111	1	0.559	4.66E-09	0	15.2	19.9	6.04E+07	
4	1978	289	28326.0	151	6.966	-6.310	4.119	1	0.448	4.90E-09	0	-5.9	13.8	7.93E+07	

5126 1978 312 79087.1 160

(FILE#) 17 ISEE1 FPE 2D IONS 85. TEXT LANL/MPE, S.J. BAME, PI 161 170 1978 313 15600. 1978 336 68400.

(DR#) YR DAY SEC ORB GSE-X GSE-Y GSE-Z E DEN ENDEN F VX VY VZ

1 1978 313 15918.7 161 2.449 -7.430 3.572 1 0.732 4.90E-09 0 61.1 19.1 4.83E+07 T

2 1978 313 15978.7 161 2.460 -7.448 3.580 1 0.774 4.78E-09 0 -9.5 -7.9 4.48E+07

3 1978 313 16038.6 161 2.480 -7.467 3.589 1 0.622 4.48E-09 0 31.2 27.6 5.21E+07

4 1978 313 16098.6 161 2.500 -7.486 3.597 1 0.737 4.55E-09 0 31.5 1.9 4.47E+07

6391 1978 336 68345.2 170

(FILE#) 18 ISEE1 FPE 2D IONS 85. TEXT LANL/MPE, S.J. BAME, PI 171 180 1978 337 8100. 1978 360 61200.

(DR#) YR DAY SEC ORB GSE-X GSE-Y GSE-Z E DEN ENDEN F VX VY VZ

1 1978 337 8114.9 171 -8.820 -8.013 3.649 1 1.556 6.87E-09 0 6.4 19.7 3.20E+07 T

2 1978 337 8174.9 171 -8.810 -8.038 3.648 1 1.308 6.58E-09 0 -15.7 -6.3 3.65E+07

3 1978 337 8234.9 171 -8.799 -8.062 3.656 1 1.410 7.07E-09 0 -5.9 15.2 3.63E+07

4 1978 337 8294.9 171 -8.788 -8.087 3.664 1 1.511 7.24E-09 0 14.4 -4.7 3.47E+07

8998 1978 360 61092.9 180

(FILE#) 19 ISEE1 FPE 2D IONS 85. TEXT LANL/MPE, S.J. BAME, PI 181 190 1978 360 85800. 1979 19 54300.

(DR#) YR DAY SEC ORB GSE-X GSE-Y GSE-Z E DEN ENDEN F VX VY VZ

1 1978 360 85961.9 181 -4.084 -7.026 3.651 1 0.710 3.92E-09 0 44.6 -21.9 3.98E+07 T

2 1978 360 86021.9 181 -4.084 -7.053 3.659 1 0.602 3.36E-09 0 17.4 43.2 4.02E+07

3 1978 360 86081.9 181 -4.085 -7.080 3.667 1 0.642 2.88E-09 0 47.2 -16.2 3.23E+07

4 1978 360 86141.8 181 -4.085 -7.106 3.675 1 0.625 3.86E-09 0 -0.4 -10.0 4.48E+07

11665 1979 19 54197.5 190

WDCTAPE: END OF INPUT

MESSAGE SUMMARY: MESSAGE NUMBER - COUNT

B-2

(FILE#)	TEXT										ORE	YR	DAY	SECS	YR	DAY	SECE	
	LANL/APE, G. PASCHMANN, PI										2	10	1977	300	108800.	1977	319	32400.
FILE 1 ISEE2 FPE 2D IONS 85.																		
(DR#)	YR	DAY	SEC	ORB	GSE-X	GSE-Y	GSE-Z	E	DEN	ENDEN	F	VX	VY	VZ	T			
1	1977	300	108809.	4	2	11.401	-1.270	5.251	0	79.567	2.94E-08	0	-104.4	72.7	1.69E+06			
2	1977	300	108869.	4	2	11.385	-1.260	5.242	0	86.860	3.05E-08	0	-117.0	56.3	1.52E+06			
3	1977	300	109229.	4	2	11.378	-1.250	5.234	0	83.632	2.91E-08	0	-112.5	60.5	1.53E+06			
4	1977	300	109889.	4	2	11.354	-1.240	5.226	0	84.128	2.98E-08	0	-130.9	50.2	1.37E+06			
4233	1977	319	32383.	3	10													
FILE 2 ISEE2 FPE 2D IONS 85.																		
(DR#)	YR	DAY	SEC	ORB	GSE-X	GSE-Y	GSE-Z	E	DEN	ENDEN	F	VX	VY	VZ	T			
1	1977	319	52770.	2	11	-6.602	-5.792	1.571	1	1.232	3.47E-09	0	10.2	8.2	2.04E+07			
2	1977	319	52830.	2	11	-6.589	-5.824	1.585	1	1.070	4.92E-09	0	-0.6	53.8	3.31E+07			
3	1977	319	52890.	2	11	-6.575	-5.855	1.599	1	0.909	3.71E-09	0	-38.0	2.5	2.95E+07			
4	1977	319	52950.	2	11	-6.562	-5.886	1.613	1	0.866	3.45E-09	0	11.2	-28.0	2.89E+07			
9312	1977	343	20641.	0	20													
FILE 3 ISEE2 FPE 2D IONS 85.																		
(DR#)	YR	DAY	SEC	ORB	GSE-X	GSE-Y	GSE-Z	E	DEN	ENDEN	F	VX	VY	VZ	T			
1	1977	343	46004.	1	21	-2.919	-5.965	2.082	1	0.872	2.74E-09	0	1.9	-11.4	2.28E+07			
2	1977	343	46064.	1	21	-2.918	-5.990	2.092	1	0.896	3.13E-09	0	-4.3	9.5	2.53E+07			
3	1977	343	46124.	1	21	-2.916	-6.023	2.106	1	0.931	2.96E-09	0	11.5	4.6	2.30E+07			
4	1977	343	46184.	1	21	-2.914	-6.055	2.120	1	0.947	3.19E-09	0	7.9	5.0	2.44E+07			
15872	1978	2	18628.	4	30													
FILE 4 ISEE2 FPE 2D IONS 85.																		
(DR#)	YR	DAY	SEC	ORB	GSE-X	GSE-Y	GSE-Z	E	DEN	ENDEN	F	VX	VY	VZ	T			
1	1978	2	35184.	1	31	-4.681	-3.356	1.742	1	0.686	1.62E-09	0	3.9	11.0	1.71E+07			
2	1978	2	35244.	1	31	-4.695	-3.390	1.758	1	0.755	1.52E-09	0	-4.3	-8.4	1.46E+07			
3	1978	2	35304.	1	31	-4.710	-3.423	1.773	1	0.581	1.40E-09	0	-21.9	12.8	1.74E+07			
4	1978	2	35364.	1	31	-4.721	-3.448	1.784	1	0.764	1.38E-09	0	8.5	15.9	1.31E+07			
28227	1978	26	6240.	6	40													

Records out - 6
File-Header +
First 4 DATA

(DR#)	YR	DAY	SEC	ORB	GSE-X	GSE-Y	GSE-Z	E	DEN	ENDEN	F	VX	VY	VZ
1	1978	193	55329.4	111	5.175	3.558	2.732	1	6.337	3.75E-09	6	-2.5	-40.6	8.06E+07
2	1978	193	55339.4	111	5.188	3.589	2.745	1	6.363	3.62E-09	6	26.9	-11.6	7.22E+07
3	1978	193	55509.5	111	5.212	3.642	2.768	1	6.395	3.69E-09	6	-6.6	22.8	6.77E+07
4	1978	193	55569.5	111	5.226	3.673	2.788	1	6.411	3.71E-09	6	-12.6	6.54E+07	

(FILE#) 13 ISEE2 FPE 2D IONS 85. TEXT LANL/APE, G. PASCHMANN, PI 121 130 1978 217 50700. 1978 241 19200.

(DR#)	YR	DAY	SEC	ORB	GSE-X	GSE-Y	GSE-Z	E	DEN	ENDEN	F	VX	VY	VZ	T
1	1978	217	50943.7	121	7.877	3.175	3.689	1	15.563	1.30E-08	0	-50.2	156.5	4.42E+06	
2	1978	217	51003.7	121	7.893	3.194	3.698	1	20.792	1.77E-08	0	-31.1	143.9	4.86E+06	
3	1978	217	51063.7	121	7.909	3.214	3.707	1	15.698	1.15E-08	0	-11.7	165.4	3.66E+06	
4	1978	217	51123.7	121	7.925	3.233	3.716	1	15.592	1.45E-08	0	-77.4	166.7	4.69E+06	

8061 1978 241 18938.4 136

(FILE#) 14 ISEE2 FPE 2D IONS 85. TEXT LANL/APE, G. PASCHMANN, PI 131 140 1978 241 36680. 1978 265 9680.

(DR#)	YR	DAY	SEC	ORB	GSE-X	GSE-Y	GSE-Z	E	DEN	ENDEN	F	VX	VY	VZ	T
1	1978	241	36627.1	131	6.324	-1.619	2.882	1	0.670	3.35E-09	0	17.6	8.6	3.63E+07	
2	1978	241	36687.1	131	6.353	-1.608	2.893	1	0.536	3.51E-09	0	-4.1	-1.1	4.74E+07	
3	1978	241	36747.1	131	6.382	-0.996	2.905	1	0.522	3.46E-09	0	26.4	-16.9	4.80E+07	
4	1978	241	36807.1	131	6.411	-0.985	2.916	1	0.538	3.27E-09	0	-12.8	-31.3	4.49E+07	

6116 1978 265 9402.9 140

(FILE#) 15 ISEE2 FPE 2D IONS 85. TEXT LANL/APE, G. PASCHMANN, PI 141 150 1978 265 34200. 1978 288 86400.

(DR#)	YR	DAY	SEC	ORB	GSE-X	GSE-Y	GSE-Z	E	DEN	ENDEN	F	VX	VY	VZ	T
1	1978	265	34202.3	141	8.390	-3.164	3.954	1	0.307	3.02E-09	0	6.3	-15.9	7.12E+07	
2	1978	265	34262.3	141	8.414	-3.162	3.962	1	0.313	2.72E-09	0	-23.3	-5.1	6.39E+07	
3	1978	265	34322.3	141	8.438	-3.159	3.976	1	0.323	2.74E-09	0	26.8	-10.9	6.15E+07	
4	1978	265	34382.3	141	8.463	-3.156	3.977	1	0.349	3.02E-09	0	36.7	25.2	6.28E+07	

3670 1978 288 86349.3 150

(FILE#) 16 ISEE2 FPE 2D IONS 85. TEXT LANL/APE, G. PASCHMANN, PI 151 160 1978 291 18600. 1978 312 77400.

(DR#)	YR	DAY	SEC	ORB	GSE-X	GSE-Y	GSE-Z	E	DEN	ENDEN	F	VX	VY	VZ	T
1	1978	291	18057.9	151	12.398	2.032	1.216	1	22.884	1.40E-08	0	-136.3	72.7	2.99E+06	
2	1978	291	18117.9	151	12.289	2.037	1.210	1	23.919	1.42E-08	0	-122.7	68.2	3.18E+06	
3	1978	291	18177.9	151	12.279	2.042	1.205	1	19.325	9.59E-09	0	-122.8	26.1	2.64E+06	
4	1978	291	18237.9	151	12.251	2.047	1.199	1	25.993	1.28E-08	0	-138.9	25.8	2.51E+06	

3554 1978 312 77221.1 160

(FILE#) 17 ISEE2 FPE 2D IONS 85. TEXT ORS ORE YR DAY SECS YR DAY SECE
 LANL/MPE, G. PASCHMANN, PI 181 170 1978 315 16260. 1978 336 66600.

(DR#) YR DAY SEC ORB GSE-X GSE-Y GSE-Z E DEN ENDEN F VX VY T
 1 1978 315 16251.9 161 9.622 -1.252 0.185 1 13.727 9.23E-09 0 -16.0 -35.6 4.79E+06
 2 1978 315 16311.9 161 9.600 -1.239 0.179 1 15.724 1.07E-08 0 -18.1 -41.2 4.80E+06
 3 1978 315 16371.9 161 9.579 -1.225 0.174 1 16.899 1.35E-08 0 -6.1 5.7 5.78E+06
 4 1978 315 16431.9 161 9.557 -1.212 0.168 1 13.897 1.25E-08 0 -2.2 -25.0 6.49E+06

5748 1978 336 66567.7 170

(FILE#) 18 ISEE2 FPE 2D IONS 85. TEXT ORS ORE YR DAY SECS YR DAY SECE
 LANL/MPE, G. PASCHMANN, PI 171 180 1978 337 4500. 1978 360 61260.

(DR#) YR DAY SEC ORB GSE-X GSE-Y GSE-Z E DEN ENDEN F VX VY T
 1 1978 337 4607.8 171 -0.727 -8.258 3.731 1 0.976 6.14E-09 0 7.4 -18.6 4.58E+07
 2 1978 337 4667.8 171 -0.717 -8.282 3.739 1 0.861 5.54E-09 0 -30.4 -9.2 4.66E+07
 3 1978 337 4727.8 171 -0.706 -8.308 3.747 1 0.943 5.77E-09 0 -38.3 32.3 4.42E+07
 4 1978 337 4787.8 171 -0.695 -8.330 3.754 1 0.867 5.80E-09 0 -7.3 -20.8 4.84E+07

7163 1978 360 60660.8 180

(FILE#) 19 ISEE2 FPE 2D IONS 85. TEXT ORS ORE YR DAY SECS YR DAY SECE
 LANL/MPE, G. PASCHMANN, PI 181 190 1978 360 77400. 1979 19 50400.

(DR#) YR DAY SEC ORB GSE-X GSE-Y GSE-Z E DEN ENDEN F VX VY T
 1 1978 360 77580.3 181 -3.869 -4.273 2.785 1 0.425 4.20E-09 0 -17.8 23.6 7.15E+07
 2 1978 360 77640.4 181 -3.874 -4.306 2.797 1 0.443 4.16E-09 0 3.3 -8.7 6.80E+07
 3 1978 360 77700.4 181 -3.879 -4.339 2.808 1 0.408 4.56E-09 0 -3.6 9.1 6.09E+07
 4 1978 360 77760.4 181 -3.884 -4.372 2.820 1 0.460 4.69E-09 0 -28.7 -19.8 7.39E+07

21807 1979 19 49997.1 190

————— MDCTAPE: END OF INPUT —————
 MESSAGE SUMMARY: MESSAGE NUMBER - COUNT

DUMPF OF TAPE X395

0-4223
11-3351
69191177-101

INPUT TAPE	Y335	0.8	BT3												
DATA INPUT	H2	MF	LL												
DATA INPUT	43	NF	12	FL	1	2	2	S3	31	1	2	SR	19	LAST	2

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(4062C4495	FJF14BF5
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(120)	40F3F0F2
(165)	49F7F6F9
(236)	F448F54F2
(244)	F543F4560
(250)	F2F14BF5
(252)	40F3F0F2
(322)	43F2F3C5
(363)	F0F348F9
(430)	F4F14BF2
(444)	F4F43F7
(455)	F1F97F7
(459)	43F2F14
(523)	F448F45
(565)	F4F9F5F9
(603)	40F344360
(649)	F74BF840
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(672)	F3444650
(763)	40F3F0F3
(830)	F3F3F2C5
(848)	F0F3F2F7
(853)	F1F97F7
(923)	43F2F3F7
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(1043)	40F3F0F1
(1083)	F1F97F7
(1123)	43F2F3F3
(1163)	F448F3F4
(1203)	43F2F4C5
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(1283)	F1F97F3
(1323)	43F2F3F3
(1363)	43F2F2F2
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(1483)	43F2F3F1
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(1683)	F1F97F7
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(1753)	43F2F4C3
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(1843)	40F3F0F4
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(1963)	F1F97F7
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(</		

FILE	INPUT RECS.	DATA RECORDS INPUT	MAX. SIZE	READ ERROR SUMMARY				INPUT #RECS.	RETRIES TOTAL#
				PERM ZERO B	SHORT	UNDEF.	#RECS.		
ECU	19	DURP STOPED	AFTER FILE	19	235	0	0	0	0
START TIME	31/3/81	14:03:27	STOP TIME	1/5/81	14:06:44				
(	323)	4FB3F7C5	REC-F744-	F64B4F40	F14BF1F1	C54EF0FC	F1FF9F7F9	40444360	F64B4F440
(	363)	4FB5F3E4	REC-F745-	F045F9F0	404340F2	406F6F7F9	404360F5	404360F5	404360F5
(	403)	4FB4F5E4	REC-F746-	F0435F6C5	60F5F940	F04040565	F2F848F7	404060F2	F04060F0
(	443)	F1F0F7F9	REC-F747-	4035F3F5	F3F74BF8	40F1F9F0	404040F2	4BF6F8F1	404060F5
(	483)	4FB5F3F9	REC-F748-	4035F3F5	F9F24F4F6	40F3F105	60F3F940	F04340F3	F0454BF7
(	523)	F9F4F5F9	REC-F749-	4035F3F5	F1F9F7F9	40F5F3F5	F9F74BF8	404340F3	404340F3
(	563)	4FB6F7F9	REC-F750-	403460F0	40F14040	40F0C4B3	F3540F6	40F1F1C5	60F0F940
(	603)	4FB4F5F4	REC-F751-	F94BF3F6	C54EF0F8	F1F9F7F9	40F5F3F6	F5F74BF7	40F1F9F0
(	643)	4FB4F5F4	REC-F752-	4035F3F4	404446F5	40F5F3F4	40F5F3F5	40F5F5F5	40F5F4F6C5
(	683)	F1F9F6F5	REC-F753-	F2F4F2F5	404340F2	404340F2	F64B3F340	F14BF1F3	C54EF0F3
(	723)	4FB4F4F6	REC-F754-	4035F3F5	404340F2	404340F2	40F6F8F6	404360F5	404360F5
(	763)	4FB3F3F5	REC-F755-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F9	40F5F3F9
(	803)	4FB5F3F7	REC-F756-	4035F3F7	40F1F9F0	404340F2	40F14040	40F14040	40F14040
(	843)	4FB4F5F4	REC-F757-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3C5	40F5F3C5
(	883)	F1F9F7F9	REC-F758-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3C5	40F5F3C5
(	923)	4FB4F5F7	REC-F759-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3C5	40F5F3C5
(	963)	F1F9F3F1	REC-F760-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3C5	40F5F3C5
(	1003)	4FB4F9F3	REC-F761-	403460F0	40F5F3F1	404340F2	40F6F8F7	40F5F3F3	40F5F3F3
(	1043)	4FB4F9F3	REC-F762-	403460F0	40F14040	40F0C4B3	40F5F3F3	40F5F3F3	40F5F3F3
(	1083)	4FB4F5F4	REC-F763-	403460F0	40F14040	40F0C4B3	40F5F3F3	40F5F3F3	40F5F3F3
(	1123)	F1F9F7F9	REC-F764-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	1163)	4FB4F5F7	REC-F765-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	1203)	4FB1F6C5	REC-F766-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	1243)	4FB4F5F3	REC-F767-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	1283)	4FB5F3F2	REC-F768-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	1323)	F1F9F4F3	REC-F769-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	1363)	4FB3F3F5	REC-F770-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	1403)	F1F9F0F6	REC-F771-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	1443)	4FB3F3F5	REC-F772-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	1483)	F1F9F4F1	REC-F773-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	1523)	4FB3F3F5	REC-F774-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	1563)	F1F9F4F3	REC-F775-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	1603)	4FB3F3F5	REC-F776-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	1643)	F1F9F4F3	REC-F777-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	1683)	4FB3F3F5	REC-F778-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	1723)	F1F9F4F3	REC-F779-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	1763)	4FB3F3F5	REC-F780-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	1803)	F1F9F4F3	REC-F781-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	1843)	4FB4F5F2	REC-F782-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	1883)	4FB4F5F2	REC-F783-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	1923)	F1F9F4F3	REC-F784-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	1963)	4FB3F3F2	REC-F785-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	2003)	F1F9F4F3	REC-F786-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	2043)	4FB3F3F5	REC-F787-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	2083)	F1F9F4F3	REC-F788-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	2123)	4FB3F3F5	REC-F789-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	2163)	F1F9F4F3	REC-F790-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	2203)	4FB3F3F5	REC-F791-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	2243)	F1F9F4F3	REC-F792-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	2283)	4FB3F3F5	REC-F793-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	2323)	F1F9F4F3	REC-F794-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	2363)	4FB3F3F5	REC-F795-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	2403)	F1F9F4F3	REC-F796-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	2443)	4FB3F3F5	REC-F797-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	2483)	F1F9F4F3	REC-F798-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	2523)	4FB3F3F5	REC-F799-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	2563)	F1F9F4F3	REC-F800-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	2603)	4FB3F3F5	REC-F801-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	2643)	F1F9F4F3	REC-F802-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	2683)	4FB3F3F5	REC-F803-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	2723)	F1F9F4F3	REC-F804-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	2763)	4FB3F3F5	REC-F805-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	2803)	F1F9F4F3	REC-F806-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	2843)	4FB3F3F5	REC-F807-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	2883)	F1F9F4F3	REC-F808-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	2923)	4FB3F3F5	REC-F809-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	2963)	F1F9F4F3	REC-F810-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	3003)	4FB3F3F5	REC-F811-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	3043)	F1F9F4F3	REC-F812-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	3083)	4FB3F3F5	REC-F813-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	3123)	F1F9F4F3	REC-F814-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	3163)	4FB3F3F5	REC-F815-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	3203)	F1F9F4F3	REC-F816-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	3243)	4FB3F3F5	REC-F817-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	3283)	F1F9F4F3	REC-F818-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	3323)	4FB3F3F5	REC-F819-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	3363)	F1F9F4F3	REC-F820-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	3403)	4FB3F3F5	REC-F821-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	3443)	F1F9F4F3	REC-F822-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	3483)	4FB3F3F5	REC-F823-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	3523)	F1F9F4F3	REC-F824-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	3563)	4FB3F3F5	REC-F825-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	3603)	F1F9F4F3	REC-F826-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	3643)	4FB3F3F5	REC-F827-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	3683)	F1F9F4F3	REC-F828-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	3723)	4FB3F3F5	REC-F829-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	3763)	F1F9F4F3	REC-F830-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	3803)	4FB3F3F5	REC-F831-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	3843)	F1F9F4F3	REC-F832-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	3883)	4FB3F3F5	REC-F833-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	3923)	F1F9F4F3	REC-F834-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	3963)	4FB3F3F5	REC-F835-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	4003)	F1F9F4F3	REC-F836-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	4043)	4FB3F3F5	REC-F837-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	4083)	F1F9F4F3	REC-F838-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	4123)	4FB3F3F5	REC-F839-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	4163)	F1F9F4F3	REC-F840-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	4203)	4FB3F3F5	REC-F841-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40F5F3F7
(	4243)	F1F9F4F3	REC-F842-	4035F3F5	404340F2	404340F2	40F6F8F6	40F5F3F7	40

FILE	INPUT RECS.	DATA RECORDS INPUT	MAX. SIZE	READ ERROR SUMMARY				INPUT #RECS.	RETRIES TOTAL#
				PERM ZERO B	SHORT	UNDEF.	#RECS.		
(	323)	417F3F7C5	31E1-F744-1	4F3454569	F1F54RF1	40434363	F64BF440	F14BF1F1	C54EF0FC
(	363)	41FB5F3F4	4F7F74B5	40F199F0	404340F2	4046F77F9	404360F5	4BF7F4F1	404060F0
(	403)	41F4F5F4	4F4F64F6	435F6C5	60F5F946	F04C40565	F2F48F7	404060F2	F04BF140
(	443)	F1F0F7F9	4F4SF1F9	40F5F3F5	F3F74BF8	40F1F9F0	404040F2	4BF6F8F1	404600F5
(	483)	4F5F54F5	4F5F14541	40F540F4	F9F24F4	F0434055	F0434053	F1554BF7	40404060
(	523)	F9F45F2F5	C54EF7	F1F9F7F5	4044F1F9	40F5F3F5	F9F74BF8	40F14040	40404062
(	563)	4BF6F7F5	494606F0	438F5F2	40F14040	40F0C4B3	F3540F6	4BF1F1C5	60F0F946
(	603)	41F404063	F94BF3F4	F14BF1F5	F1F9F7F9	4040F1F9	40F5F3F6	F5F74BF7	40F199F0
(	643)	4BF15F2F4	4F416F95	40F5F3F4	404456F0	45F2F5F5	40F14040	40F040F4	F2F440F6
(	683)	F1F494F6	F2F42F5	40F4340	F64BF3F4	C54EF0F3	F1F9F7F9	40F5F3F7	40404060
(	723)	4F194F6	4F4040F2	40F6F8F6	464456F5	40F496F0	4BF8F5F9	40F14040	40F04BF4
(	763)	4F3F3F0CS	60F5F94K	40F4040	60F4040	F94F8F5	C54EF0F7	F1F9F7F9	40404062
(	803)	41F5F3F7	F7F74BF7	40F1F9F0	404040F2	4BF6F6F7	40F5F5F3	40F199F0	4BF8F6F3
(	843)	40F045F4	F5F840F5	40F7F9C5	60F0F940	F0404060	F1F14BF6	40404060	F24BF240
(	883)	F1F9F7F9	4F445F19	40F5F3F5	F3F74BF7	40F1F9F2	404040F2	40F5F2F7	40404060
(	923)	40F45F5H7	4F145434	40F34BF4	F1F640F5	40F8F8F3C5	60F0F942	F0404060	F3F24BF1
(	963)	F14BF3F1	40F4040	F1F9F7F9	4040F1F9	40F5F3F5	F9F74BF6	40F1F9F0	404040F2
(	1003)	4BF4F9F3	494665F0	40F8F7F1	40F14040	40F045F3	F4F340F5	4BF8F0C5	60F0F940
(	1043)	40F456F2	F5F4D5F4	40F7F9C2	404040F2	C54EF0F8	F1F9F7F9	404040F1	F84BF9F7
(	1083)	4BF5F9F2	40406JF5	43F8F5F4	404040F0	404040F5	4BF5F2F7	40404060	4BF5F2F7
(	1123)	F6443404	60F5F4BF9	40404060	F040640	F14BF640	F0404060	F3F24BF1	404040F3
(	1163)	40F19F40	404040F2	4946F9F3	404060F5	4BF4F1F8	404060F3	40F404BF3	404040F2
(	1203)	4EF1F6C5	60F0F940	F3404060	F2F94BF8	404056F2	F24BF940	F14BF1F2	C54EF0F8
(	1243)	4945F463	F7F74BF6	40F1F9F0	404040F2	4BF6F9F5	404060F5	4F5F74BF6	40F199F0
(	1283)	40F34F53	F7F7145F5	45F8F0C5	60F3F940	F0434056	F2F1406	4BF0F0C5	40404060
(	1323)	F1F9F7F9	4F445F19	40F5F4F1	F3F74BF5	40F1F9F3	404040F2	40F5F4C0	40404060
(	1363)	40F3F0F7	404040F3	40F6F3C5	60F3F940	F0404060	F3F24BF1	40404063	40404060
(	1403)	F14BF0F6	C545F0F8	E1A9479	404031E9	40F5F4F1	F9F74BF5	40F1F9F0	404040F2
(	1443)	4BF3F0F5	404060JF9	40F5F8F9	40F14040	40F040F5	F9F140F5	4BF6F9F7	40404060
(	1483)	404060F9	F24BF940	F143F0F9	C54EF0F8	48F4F1C5	60F0F940	F3404060	40404060